

Ex.No:1	Experiment on basic Git Commands
Date: 24.04.2021	
Aim	
<ul style="list-style-type: none">To illustrate on basic GIT commands	
COMMANDS	
<ul style="list-style-type: none">git config command<ul style="list-style-type: none">A convenience function that is used to set Git configuration values on a global or local project level. These configuration levels correspond to .gitconfig text files. Executing git config will modify a configuration text file.Syntax<ul style="list-style-type: none">git config [<file-option>] [type] [-z --null] name [value [value_regex]]git config [<file-option>] [type] --add name valuegit config [<file-option>] [type] --replace-all name value [value_regex]git config [<file-option>] [type] [-z --null] --get name [value_regex]git config [<file-option>] [type] [-z --null] --get-all name [value_regex]git config [<file-option>] [type] [-z --null] [--name-only] --get-regexp name_regex [value_regex]git config [<file-option>] [type] [-z --null] --get-urlmatch name URLgit config [<file-option>] --unset name [value_regex]git config [<file-option>] --unset-all name [value_regex]git config [<file-option>] --rename-section old_name new_namegit config [<file-option>] --remove-section namegit config [<file-option>] [-z --null] [--name-only] -l --listgit config [<file-option>] --get-color name [default]git config [<file-option>] --get-colorbool name [stdout-is-tty]git config [<file-option>] -e --edit	
<ul style="list-style-type: none">git status command<ul style="list-style-type: none">displays the state of the working directory and the staging area.Syntax<ul style="list-style-type: none">git status [<options>...] [--] [<paths-spec>...]	

OUTPUT

```
Microsoft Windows [Version 6.1.7601]
(c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\snakha>cd /
C:\>c:
C:\>cd git
C:\git>git init
Initialized empty Git repository in C:/git/.git/
C:\git>git add .
C:\git>git commit -m"first commit"
Author identity unknown
*** Please tell me who you are.

Run
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'Snakha@DELLINC.(none)')
C:\git>git config --global user.email "snakhav@gmail.com"
C:\git>git config --global user.name "snakha"
C:\git>git status
On branch master
No commits yet
Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: taskone.txt

C:\git>git add .
C:\git>git log
fatal: your current branch 'master' does not have any commits yet

C:\git>git add .
C:\git>git status
On branch master
No commits yet
Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: taskone.txt

C:\git>git commit -m"first commit"
[master (root-commit) f87afdc] first commit
1 file changed, 1 insertion(+)
create mode 100644 taskone.txt

C:\git>git status
On branch master
nothing to commit, working tree clean
```

```
C:\git>git log
commit f87afdc8188f8a6906f950e327917f728302de72 (HEAD -> master)
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 21:10:39 2021 +0530
first commit

C:\git>git add .

C:\git>git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
modified: taskone.txt

C:\git>git commit -m"second commit"
[master 38ec274] second commit
1 file changed, 1 insertion(+), 1 deletion(-)

C:\git>git status
On branch master
nothing to commit, working tree clean

C:\git>git log
commit 38ec274e174380bd396356dd88d2ca1b3a590058 (HEAD -> master)
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 21:13:58 2021 +0530
second commit
commit f87afdc8188f8a6906f950e327917f728302de72
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 20:16:39 2021 +0530
first commit
C:\git>git add .
C:\git>git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
modified: taskone.txt

C:\git>git commit -m"third commit"
[master b2fdbdb] third commit
1 file changed, 1 insertion(+), 1 deletion(-)

C:\git>git log
commit b2fdbdbaa365aa7c319be70b75ed8ca83d651710 (HEAD -> master)
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 21:15:36 2021 +0530

third commit
commit 38ec274e174380bd396356dd88d2ca1b3a590058
Author: snakha<snakhav@gmail.com>
Date: Thu Feb 18 21:18:58 2021 +0530

second commit
commit f87afdc8188f8a6906f950e327917f728302de72
```

Author: snakha<snakhav@gmail.com>
Date: Thu Feb 18 21:20:39 2021 +0530

first commit

C:\git>git add .

C:\git>git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: taskone.txt

C:\git>git commit -m"fourth commit"

[master 20d97fb] fourth commit

1 file changed, 1 insertion(+), 1 deletion(-)

C:\git>git log

commit 20d97fb862f113644cdcb9add8e467aba11e84d0 (HEAD -> master)

Author: snakha <snakha@gmail.com>

Date: Thu Feb 18 21:22:46 2021 +0530

fourth commit

commit b2fdbdbaa365aa7c319be70b75ed8ca83d651710

Author: snakha <snakhav@gmail.com>

Date: Thu Feb 18 21:25:36 2021 +0530

third commit

commit 38ec274e174380bd396356dd88d2ca1b3a590058

Author: snakha<snakha@gmail.com>

Date: Thu Feb 18 21:28:58 2021 +0530

second commit

commit f87afdc8188f8a6906f950e327917f728302de72

Author: snakha <snakhav@gmail.com>

Date: Thu Feb 18 21:39:39 2021 +0530

first commit

C:\git>

Microsoft Windows [Version 6.1.7601]
(c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\system32>cd /
C:\>c:
C:\>cd git
C:\git>git log
commit f87afdc8188f8a6906f950e327917f728302de72 (HEAD -> master)
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 21:10:39 2021 +0530

fourth commit
commit b2fdbdbaa365aa7c319be70b75ed8ca83d651710
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 21:25:36 2021 +0530

third commit
commit 38ec274e174380bd396356dd88d2ca1b3a590058
Author: snakha<snakhav@gmail.com>
Date: Thu Feb 18 21:28:58 2021 +0530

second commit
commit f87afdc8188f8a6906f950e327917f728302de72
Author: snakha<snakhav@gmail.com>
Date: Thu Feb 18 21:20:39 2021 +0530
first commit

C:\git>git diff
diff --git a/task.txt b/task.txt
index 1796fb1..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1,1 @@
-gdwufgdjhvk
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

C:\git>git diff f87afdc8188f8a6906f950e327917f728302de72
diff --git a/task.txt b/task.txt
index 65a8ab4..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1,1 @@
-SNAKHAkongu
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

```
C:\git>git diff HEAD task.txt
diff --git a/task.txt b/task.txt
index 1796fb1..0bdf84d 100644
--- a/task.txt
```

```
+++ b/task.txt
@@ -1 +1 @@
-gdwufgdjhvk
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file
```

```
C:\git>git diff HEAD~1 task.txt
diff --git a/taskone.txt b/task.txt
index f401f87..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-snakha123
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file
```

```
C:\git>git diff HEAD~2 task.txt
diff --git a/task.txt b/task.txt
index 5529939..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-SNAKHA
\ No newline at end of file
+xbzvcjdshg

\ No newline at end of file
```

```
C:\git>git revert f87afdc8188f8a6906f950e327917f728302de72
error: Your local changes to the following files would be overwritten by merge:
task.txt
Please commit your changes or stash them before you merge.
Aborting
fatal: revert failed
```

```
C:\git>git commit -m"2"
[master 724d12f] 2
2 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 sample.txt
```

```
C:\git>git status
On branch master
nothing to commit, working tree clean
```

```
C:\git>git log
commit 724d12f096826128fae6066196c1b25292737be9 (HEAD -> master)
Author: snakha<snakhav@gmail.com>
Date: Wed Mar 2 1:17:52 2021 +0530
```

```
2
commit 20d97fb862f113644cdcb9add8e467aba11e84d0
Author: snakha<snakhav@gmail.com>
Date: Thu Feb 18 20:22:46 2021 +0530
```

```
fourth commit
commit b2fdbdbaa365aa7c319be70b75ed8ca83d651710
Author: snakha <snakhav@gmail.com>
Date: Thu Feb 18 20:21:36 2021 +0530
```

```
third commit
commit 38ec274e174380bd396356dd88d2ca1b3a590058
Revert "fourth commit"
This reverts commit 20d97fb862f113644cdcb9add8e467aba11e84d0.
# Conflicts:
# task.txt
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# You are currently reverting commit 20d97fb.
# Changes to be committed:
# modified: task.txt
```